

卷之三

1 GAT TTT TTG TGA TAT CTT CCTT CGG GGG GGG GAA CCT ATT GTA TAA ACG CCA ACC AAC CCG
 64 CCC TTT TTT GGG TAC CTG CGC ATT TTA CCTT GGC CCA TTT TGG TAA AAT GTT CCT TTC CCT GCG
 127 TTA ATC CCC CTG ATT CCT TGT GGG ATA ACC CGT ATT CCC CCC CTT AGA GTG AAT TTG AAA ACC
 190 CTT TCG CCC GGA AGG GGA CCG ACC GAG CCC AGC GAT TCA TGG AGC GAG GAA AGC GGG AAG AGC
 253 GCC CAA TAC CCA AGC CGC CTC TCG CCG GCG CGT TGT GCG ATT CAT TAA TAC AGC TGC CAC GAC
 316 AGG TTT CCC GAC TGG AAA GCG GTC AGT GAG CGC AAC ACA ATT AAT GTG AGT TAG CTC ACT CAT
 379 TAG GCA CCC CAG GCT TTA CAC TTT ATG CTT CCG GCT CGT ATG TRG TGT GGA ATT GTG AGC GGA
 442 TAA CAA TTT CAC ACA GGA AAC AGC TAT GAC CAT TAC GTC CAA GCT CGA AAT TAA CCC TCA
 505 CTA AAG GGA ACA AAA ACT GGA GCT CCA CCG CCG TGG CGG CCG CTC TAG AAC TAG TGG ATC CCC
 568 CGG GCT CCA GGA ATT CGC CAC GAC CGG GAG GAC CGA GGA GCC GGC AGA CTA CGG GCG A ATG
 629 GCG ACC CGC AGC CCT GGC GTC GTC ATT ATG GAT GAT TGG CCA GGG TAT GAC TTC AAT TTC TTC
Ala Thr Arg Ser Pro Gly Val Val Ile MET Asp Asp Tyr Asp Gly Tyr Asp Leu Asn Leu Phe MET

FIG. 1A

692	ACG TAC CCA CAG CAC TAT TAT GGA GAC TTG GAG TAT GTC CTC ATC CCT CAT GGT ATC ATT GTG
	Thr Tyr Pro Gln His Tyr Tyr Gly Asp Leu Glu Tyr Val Leu Ile Pro His Gly Ile Ile Val
755	GAC AGA ATT GAG CGG CTG GCC AAG GAT ATT ATG AAA GAC ATA GGA TAT AGT GAC ATC ATG ATC
	Asp Arg Ile Glu Arg Leu Ala Lys Asp Ile MET Lys Asp Ile Gly Tyr Ser Asp Ile MET Val
818	CTG TGT GTG CTT AAA GGG GGG TAC AAA TTC TGT GCT GAT CTC GTA GAA CAC CTT AAG AAC AAC
	Leu Cys Val Leu Lys Gly Gly Tyr Lys Phe Cys Ala Asp Leu Val Glu His Leu Lys Asn Ile
881	AGC CGA AAT TCA GAT CGG TTT GTC TCA ATG AAG GTT GAT TTC ATC AGA CTA AAA AGT TAC AGG
	Ser Arg Asn Ser Asp Arg Phe Val Ser MET Lys Val Asp Phe Ile Arg Leu Lys Ser Tyr Arg
944	AAT GAC CAG TCC ATG GGT GAG ATG CAG ATA ATC GGA GGC GGT GAT CTT TCA ACG CTG GCT GGA
	Asn Asp Gln Ser MET Gly Glu MET Gln Ile Ile Gly Gly Asp Leu Ser Thr Leu Ala Gly
1007	AAG AAT TTT CTC ATT GTT GAG GAT GTT GTC GGA ACT GGG AGG ACC ATG AAA GCA CTA CTC AGC
	Lys Asn Phe Leu Ile Val Glu Asp Val Val Gly Thr Gly Arg Thr MET Lys Ala Leu Leu Ser
1070	AAT ATA GAG AAA TAC AAG CCC AAC ATG ATT AAG GTA GCC AGT TTG TTG AAG AGA ACA TCC
	Asn Ile Glu Lys Tyr Lys Pro Asn MET Ile Lys Val Ala Ser Ile Leu Val Lys Arg Thr Ser
1133	AGA AGT GAC GGC TTT AGA CCT GAC TAT GCT GGA TTT GAG ATT CCA CAC TTA TTT GTG GTG GGA
	Arg Ser Asp Gly Phe Arg Pro Asp Tyr Ala Gly Phe Glu Ile Pro His Leu Phe Val Val Gly

FIG. 1B

1196 TAT GGC TTA GAT TAC AAT GAA TAC TTC AGA GAT CTG AAT CAC ATA TGC GTC ATC AAT GAG CAC

Tyr Ala Leu Asp Tyr Asn Glu Tyr Phe Arg Asp Leu Asn His Ile Cys Val Ile Asn Glu His

1259 GGG TAA AGG AAA ATA TCG AGT CTT AAA GAC ATG AAT TCT CAC CAC TAA AGG CCC CAG ATA GGA
GLY STP

1322 TCA TTT TTA CGC CTG TCT TGG GGA GCC AGT TGC AAG TTG GGC CCC GGA TCT TCA TCA GGA

1385 GG

FIG. 1C

1 MATRSPGVVISDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKE 56
||||||| || ||||:||..|| :|| |:|||:||:||.|||:|||:
1 MATRSPGVVIMDDWPGYDLNLFTYPQHYYGLEYVLIPHGIIVDRIERLAKDIMKD 56

57 MGGHHIVALCVLKGGYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSYCNDQSTG 112
:| .|.:||||| |||:::|..| ||| :.||| ||| ||| |
57 IGYSDIMVLCVLKGGYKFCADLVEHLKNISRNSDRFVSMKVDFIRLKSYRNDQSMG 112

113 DIKVIGGDDLSTLTGKNVLIVEDIIDTGKTMQTLLSLVRQYNPKMVVASLLVKRT 168
:::|||:|||||.|||.||||:::|||..||| : .|. .|:|||||||
113 EMQIIGGGDLSTLAGKNFLIVEDVVGTGRTMKALLSNIKYKPNMIKVASLLVKRT 168

169 PRSVGYKPDFVGFEIPDKFVVGYALDYNEYFRDLNHVCVISETGKAKYKA 218
.|| |::|||.|||||.|||||||.||||||:|||.|| | |...
169 SRSDGFRPDYAGFEIPHLFVVGYALDYNEYFRDLNHICVINEHG*RKISS 218

FIG.2

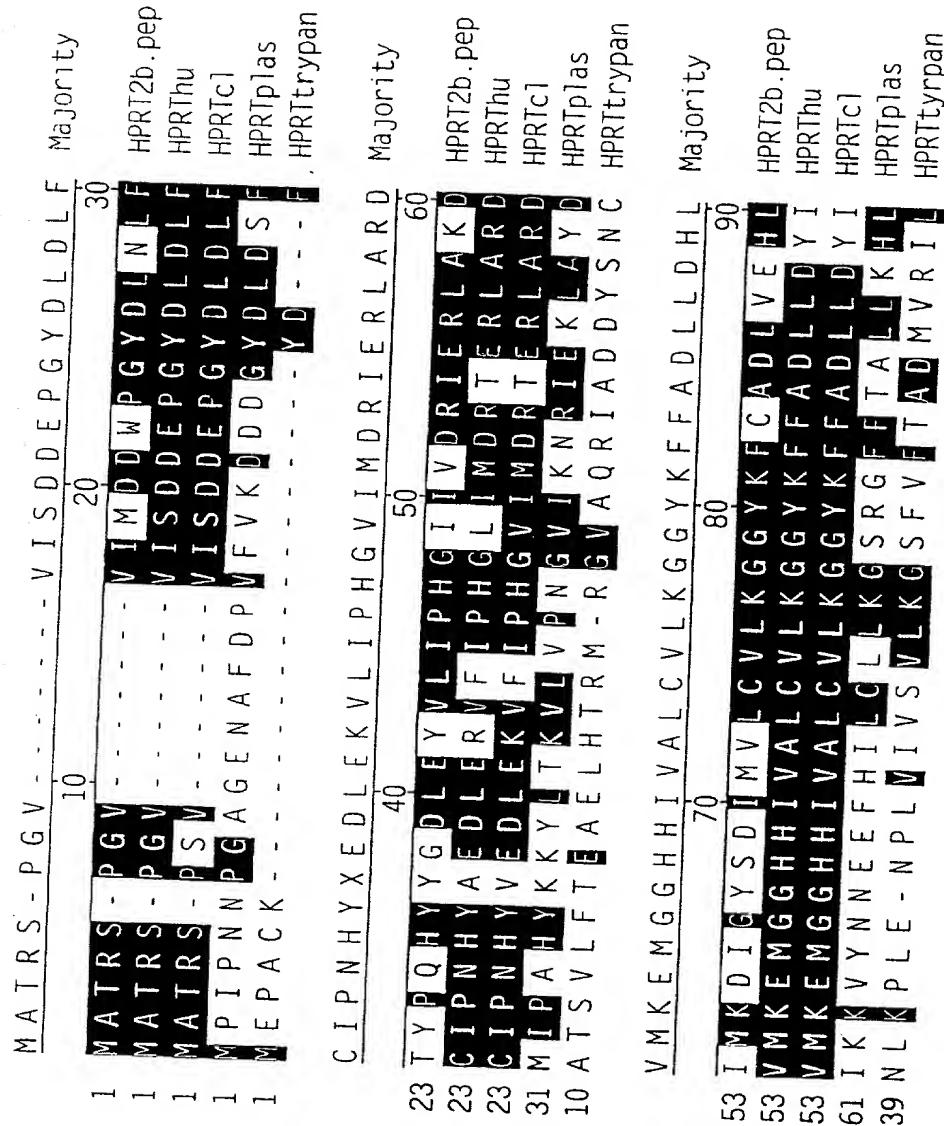


FIG.3A

K A L N R N S D R S V P M T V - - - D F I R L K S Y C N D Q	Majority		
<u>100</u>	<u>110</u>	<u>120</u>	
83 K N I S R N S D R F V S M K V - - - D F I R L K S Y R N D Q	HPRT2b.pep		
83 K A L N R N S D R S I P M T V - - - D F I R L K S Y C N D Q	HPRT2b.pep		
83 K A L N R N S D R S I P M T V - - - D F I R L K S Y C N D Q	HPRT2b.pep		
91 S R I H N Y S A V E M S K P L F G E H Y V R V K S Y C N D Q	HPRT2b.pep		
68 G D F G - - - - V P T R V - - E F L R A S S Y G H D T	HPRT2b.pep		
S T G D I K V I G G D D L S T L T G K N V L I V E D I I D T	HPRTtrypan		
<u>130</u>	<u>140</u>	<u>150</u>	Majority
110 S M G E M Q I I G G G D L S T L A G K N F L I V E D V V G I	HPRT2b.pep		
110 S T G D I K V I G G D D L S T L T G K N V L I V E D I I D T	HPRT2b.pep		
110 S T G D I K V I G G D D L S T L T G K N V L I V E D I I D T	HPRT2b.pep		
121 S T G T L E I V S - E D L S C L K G K H V L I V E D I I D T	HPRT2b.pep		
89 K S C G R V D V K A D G L C D I R G K H V L V L E D I I D T	HPRT2b.pep		
G K T M Q T L L S L V K K Y E P K M V K V A S L L V K R T S	HPRTtrypan		
<u>160</u>	<u>170</u>	<u>180</u>	Majority
140 G R T M K A L L S N I E K Y K P N M I K V A S L L V K R T S	HPRT2b.pep		
140 G K T M Q T L L S L V R Q Y N P K M V K V A S L L V K R T S	HPRT2b.pep		
140 G K T M Q T L L S L V K R Y N P K M V K V A S L L V K R T S	HPRT2b.pep		
150 G K T L V K F C E Y L K K F E I K T V A I A C L F I K R T P	HPRT2b.pep		
119 A L T L R E V V D S L K K S E P A S I K T L V A I D K P G G	HPRT2b.pep		

FIG. 3B

	RSVGFKPDYAGFEIPHLFVVGVYALDYNENEYF	Majority
170 RSDGFRPDYAGFEIPHLFVVGVYALDYNENEYF	210	
170 RSVGYKPDYAGFEIPHLFVVGVYALDYNENEYF		HPRT2b.pep
170 RSVGYRPDYAGFEIPHLFVVGVYALDYNENEYF		HPRT2b
180 LWNGFKADFGFSIPDHFVVGVYSLDYNEIFI		HPRT2c
149 RKIPFTAEYVVAADVPPNVDQSY		HPRTplas
RDLNHVCVIS-	- - - E T G K A K Y K A - -	HPRTtrypan
	RDLNHICVIN- - - - E H G	Majority
200 RDLNHICVIN- - - - E H G	230	240
200 RDLNHVCVIS- - - - E H G		HPRT2.pep
200 RDLNHICVIS- - - - E H G		HPRT2
210 RDLDHCCCLVN- - - - E H G		HPRT2c
179 REVRDVVILKPSVYETWGKELERRKAAAGEA	- - - D E G K K K Y K A T S	HPRTplas
RDLNHICVIN- - - - E H G	- - - D E G K K K Y K A T S	HPRTtrypan
212 - -	- - - D E G K K K Y K A T S	
218		
218		
231 L		
209 K R		

FIG. 3C

ATG (His)6

Bam HI

Xba I

ATG (His)6

HPRT-2

747 nt

640

1387

FIG. 4

100000 50000 25000 10000

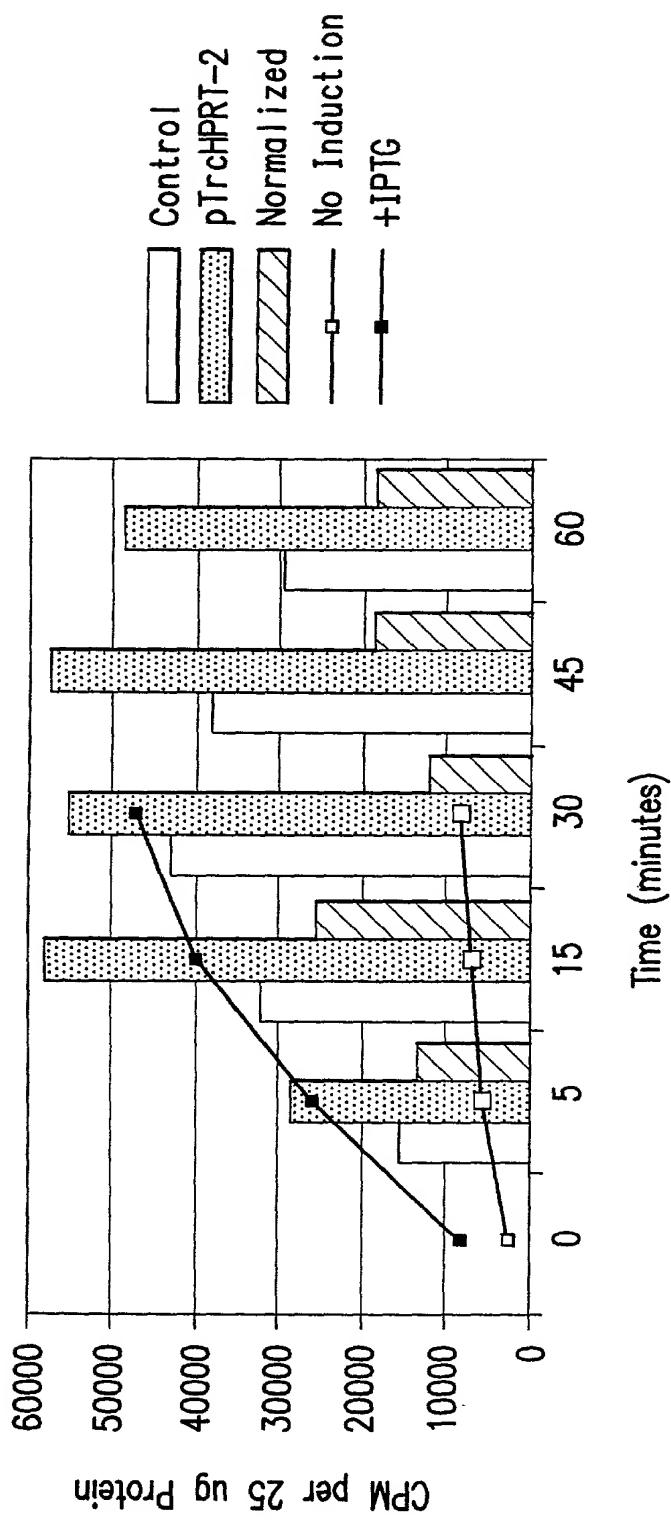


FIG.5